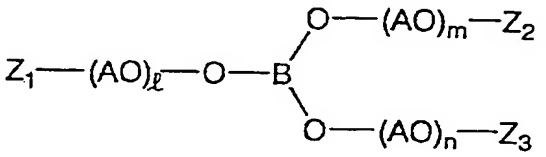
WHAT IS CLAIMED IS:

1. A polymerizable boron-containing compound for electrochemical device represented by (formula 1):



(Formula 1)

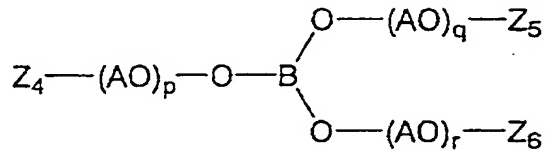
wherein B is a boron atom; Z_1, Z_2 and Z_3 are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that one or two of Z_1, Z_2 and Z_3 are organic groups having an acryloyl or methacryloyl group; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and ℓ, m and n are independently an average number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that ℓ + m + n is 1 or more.

2. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a boron-containing compound according to claim 1.

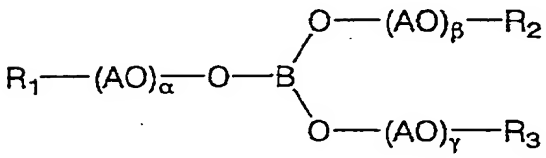
3. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a boron-containing compound according to claim 1 and at least one electrolytic salt.

4. A polymerizable composition for electrochemical device comprising a boron-containing compound

represented by (formula 2) and a boron-containing compound represented by (formula 3) so that the molar ratio between the compound of (formula 2) and the compound of (formula 3) [(the number of moles of the compound of (formula 3))/(the number of moles of the compound of (formula 2))] is 0.1 to 9:



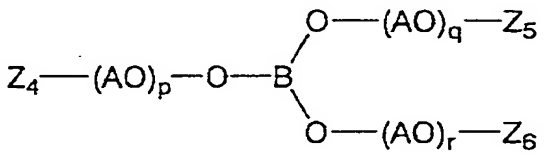
(Formula 2)



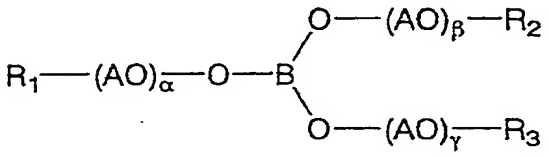
(Formula 3)

wherein B is a boron atom; Z_4, Z_5 and Z_6 are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that at least one of Z_4, Z_5 and Z_6 is an organic group having an acryloyl or methacryloyl group; R_1, R_2 and R_3 are independently a hydrocarbon group of 1 to 10 carbon atoms; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and p, q, r, α, β and γ are independently an average number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that each of the sum p + q + r and the sum $\alpha + \beta + \gamma$ is 1 or more.

5. A polymerizable composition for electrochemical device comprising a boron-containing compound represented by (formula 2) and a boron-containing compound represented by (formula 3) so that the molar ratio between the compound of (formula 2) and the compound of (formula 3) [(the number of moles of the compound of (formula 3))/(the number of moles of the compound of (formula 2))] is 0.1 to 4:



(Formula 2)



(Formula 3)

wherein B is a boron atom; Z_4, Z_5 and Z_6 are independently an organic group having an acryloyl or methacryloyl group, or a hydrocarbon group of 1 to 10 carbon atoms, provided that at least one of Z_4, Z_5 and Z_6 is an organic group having an acryloyl or methacryloyl group; R_1, R_2 and R_3 are independently a hydrocarbon group of 1 to 10 carbon atoms; AOs are independently an oxyalkylene group of 1 to 6 carbon atoms and are of one or more kinds; and p, q, r, α, β and γ are independently an average number of moles of the oxyalkylene group(s) added of less than 4 and more than 0, provided that

each of the sum p + q + r and the sum $\alpha + \beta + \gamma$ is 1 or more.

6. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 4.

7. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 5.

8. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 4 and at least one electrolytic salt.

9. An ion-conductive polyelectrolyte for electrochemical device comprising a polymer obtained by polymerizing a polymerizable composition according to claim 5 and at least one electrolytic salt.

10. An ion-conductive polyelectrolyte for electrochemical device according to claim 3, wherein said electrolytic salt is selected from the group consisting of $LiPF_6$, $LiN(CF_3SO_2)_2$, $LiClO_4$, $LiBF_4$, $LiAsF_6$, LiI, LiBr, LiSCN, $Li_2B_{10}Cl_{10}$ and $LiCF_3CO_2$.

11. An ion-conductive polyelectrolyte for electrochemical device according to claim 7, wherein said electrolytic salt is selected from the group consisting of $LiPF_6$, $LiN(CF_3SO_2)_2$, $LiClO_4$, $LiBF_4$, $LiAsF_6$, LiI, LiBr, LiSCN, $Li_2B_{10}Cl_{10}$ and $LiCF_3CO_2$.